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# ON NONLINEAR LONGITUDINAL OSCILLATION
## OF A PILE IN RESISTING MEDIUM

## Abstract

The present paper is devoted to investigation of longitudinal oscillations of rectangular pile in resisting medium subject to geometrical non-linearity. It's assumed that on all lateral surface of pile, complete coupling with ground exists and at deformation of pile the coming unstuck of ground doesn't happen. The action of ground of pile is substituted by the force distributed on lateral surface of a pile and acting opposite to the moving of pile.